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Applications of Functions of Matrices (Cont.) 436

Article XI. Certain Supplements to the Theory of Regular Systems

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Miscellany

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$XU - UX = \lambda X$	
3. Solution of the equation	426
$HX + pX - XU = T$	

Card 10/11

Applications of Functions of Matrices (Cont.)

436

4. Solution of the system

$$T \sum_{j=1}^m U_j - \sum_{j=1}^m U_j T = T - T \sum_{j=1}^m a_j U_j T; T^2 = 0.$$

428

5. Fundamental properties of the function

$$\lg(e^{x_1} e^{x_2} \dots e^{x_m})$$

428

430

6. Calculation of configuration parameters

435

7. Absolute hyperlogarithms

437

8. Solution of Gauss system in finite form

9. Differential substitutions as functions of a
normability point

440

10. Expansion of U_j in powers of $(k - a_j)$

443

11. Generalization of Riemann problem

444

12. Dependence of integral substitutions of an irregular
matrix on the normability point

446

A speech made by I. A. Lappo-Danilevskiy in defense of
his dissertation on April 5, 1929

448

AVAILABLE: Library of Congress
Card 11/11

LK/VS
7-16-58

CHALOV, N.V.; LAPPO-DANILEVSKIY, Yu.K.; GORYACHIKH, Ye.F.; BLINOVA, N.N.;
ZHDANOVA, L.A.

Chemicomechanical degradation of linters in the presence of
sulfuric acid. Sbor. trud. NIIGS 12:87-98 '64.
(MIRA 18:3)

LAPPO-DROZDOVA, A. I.

Name: LAPPO-DROZDOVA, A. I.

Dissertation: The physical development of students in railroad schools

Degree: Cand Med Sci

Defended At
Defended At: Acad of Pedagogical Sci, Sci Res Inst of Physical Training and School Hygiene

Publication

Defense Date, Place: 1956, Moscow

Source: 'Knizhnaya Letopis', No 47, 1956

LAPPO - DROZDOVA, A. I.
LAPPO-DROZDOVA, A.I.

Physical development condition of health, and morbidity of pupils from railway and industrial schools at the Moscow railway junction in 1943-1944 and 1951-1952 [with summary in English]. Gig. i san. 22 no.11:36-43 N '57. (MIRA 11:1)

1. Iz TSentral'noy nauchno-issledovatel'skoy laboratorii gigiyeny i epidemiologii Ministerstva putey soobshcheniya SSSR.
(SCHOOL HEALTH

in Russia, in railway & indust. school (Rus))

LAPPO-DROZDOVA, Anna Iosifovna

[Dynamics of the physical development of adolescents] Dinamika fizi-
cheskogo razvitiia podrostkov; po materialam obследovaniia uchashchik-
sia ZhU Moskovskogo uza. Moskva, Nedgiz, 1960. 117 p.
(MIRA 14:8)

(CHILDREN—GROWTH)

[] YUGOSLAVIA

I. NAGULIC, M. PEROVIC and G. LAFAS, Surgical Clinic of Edouard Herriot Hospital in Lyon, France; Head Prof Dr P. MARINETTI; and Neurosurgical Clinic of Medical Faculty (Neurohirurska Klinika Medicinskog Fakulteta) Belgrade; Head (Upravnik) Prof Dr S. KOSTIC.

"Cerebral Angioma in Children."

Belgrade, *Acta Chirurgica Jugoslavica*, Vol 9(10), No 3-4, 1962; p. 205-218.

Abstract [English summary modified]: Clinical data on 16 patients, 6 of these being from the Lyon clinic. Nine were operated upon and 3 died. Special discussion on diagnosis by angiography. Fourteen cranial angiograms, 2 pneumoencephalograms; 1 case report; about 50 references, half French, half English.

[] 1/1

NAGULIC, I.; PEROVIC, M.; LAPRAS, C.

Cerebral angioma in children. Acta chir. iugosl. 9 no.3/4:205-218
'62.

1. Hirurska klinika bolnice Edouard Herriot u Lyonu (Upravnik prof.
dr P. Wertheimer) i Neurohirurska klinika Medicinskog fakulteta u Beogradu
(Upravnik prof. dr S. Kostic).
(BRAIN NEOPLASMS) (HEMANGIOMA)

5

~~LAPRUN, B.M.~~, mayor med. slushby.

Bacteriological and epidemiological study of dysentery.
Voen.-med.zhur. no.12:79-80 D'55
(DYSENTERY) (MIRA 12:1)

LAPRUN, B. M.

USSR/Microbiology - Medical and Veterinary.

P-4

Abs Jour : Ref Zhur - Biologiya, No 7, 1957, 26399

Author : Laprun, B.M., L'vovskaya, Ye.I.

Inst :

Title : Rapid Bacteriological Diagnosis of Dysentery by Means of a Combined Carbohydrate-Alcohol Column.

Orig Pub : Voyen.-med. zh., 1956, No 3, 53-55

Abst : For purposes of laboratory diagnosis of dysentery, the authors propose the implantation of suspected colonies from bacto-agar Zh on a combined medium, consisting of stratified layers of Giess medium with mannite, saccharose, lactose and glucose. VR indicator is added to the medium. The upper part of the media column obtained (Ressel medium) is beveled off. Implantation is done through puncture and scratching, after which sterile meat infusion is made to cap the column, and indol and hydrogen sulfide indicator strips are placed below the

Card 1/2

USSR / Microbiology. Microorganisms Pathogenic to Humans and
Animals.

F-5

Abs Jour : Ref Zhur - Biol., No 20, 1958, No. 90940

Author : Laprun, B. M.; L'vovskaya, Yo. I.

Inst : Not given

Title : An Experiment Using Membrane Filters for a Quantitative
Determination of the Extent of Surface Contamination by
Enteric Bacilli

Orig Pub : Sb. nauchno. rabot. Mold. otd. Vses. nauchno. o-va
mikrobiol., epidemiol., i infektsionistov, 1957, vyp. 2,
97-100

Abstract : Sterile gauze pads 5 x 5 cm in dimension, moistened with
physiological solution, were used to wipe 50 - 100 cm²
surfaces. The pads were immersed in flasks containing
50 - 100 ml of sterile physiological solution and shaken
for 3 - 5 min., after which the fluids were passed through

Card 1/2

54

LAPRUN, B.M.

Clinical and epidemiological evidence of the role of *B.alkalescens*
in the etiology of dysentery. Zdravookhranenie 2 no.5:35-40 S-0
'59. (MIRA 13:4)

1. Iz 86 podvizhnogo sanitarno-epidemiologicheskogo otryada (nachal'-
nik A.S. Ismailov).
(*SHIGELLA ALKALESSENS*) (DYSENTERY)

IAPSA, A.M., agronom; RADAYEVA, Z.M., agronom.

Hundred centners of pork per hundred hectares. Nauka i pered. op. v
sel'khoz. 7 no.10:15-17 0 '57. (MLRA 10:11)
(Swine--Feeding and feeding stuffs)

LAPSA, E. Ya., Cand Agr Sci -- (diss) "Contents of mineral substances
and vitamin C in common cabbage (Brassica oleracea capitata) ^{in relation to} depending
on ~~conditions of~~ growing." Riga, 1958. 20 pp (Min of Agriculture
USSR, Latvian Agr Acad), 150 copies (KL, 16-58, 122)

-84-

LAPSAKOV, I. D. Cand Agr Sci -- (diss) "Qualitative categories of suitability of trees and groves in evaluation of standing timber." Len, 1957. 15 pp 21 cm.
(Min of Higher Education USSR. Len Order of Lenin Forestry Engineering Acad im S. M. Kirov), 100 copies
(KL, 7-57, 108)

53

LAPSANSKY, Jan

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: /not given/

Affiliation: /not given/

Source: Bratislava, Masa Veda, Vol VIII, No 7, 1961, pp 432-436.

Data: "Sierra Leone and Angola."

GPO 981643

6(7)

SOV/178-58-7-16/24

AUTHORS: Lapshenko, B. and Fomichev, N., Engineer-Lieutenant Colonels

TITLE: Field Communication Cables (Polevyye kabeli svyazi)

PERIODICAL: Voyennyy svyazist, 1958, Nr 7, pp 38 - 40 (USSR)

ABSTRACT: The authors describe a coil-loaded, four-conductor cable which may be used for long-distance communication with HF condensing equipment P-312 or P-311 up to 60 kc, telephone equipment P-100 or telegraph equipment ST-35. The cable has four conductors with polyethylene insulation, which are enclosed in a polychlorvinyle hose. Each conductor consists of 7x0.49 copper wires. The cable has an aluminum screen and steel braiding underneath the plastic hose. The cable weighs 240 kg/km, its tensile strength is 240 kg. It is shipped in spools containing 250±3 m. Figures 3 and 5 show the couplings used for connecting the cable sections. There are 5 photos and 1 diagram.

Card 1/1

~~LAPSHENKOV, B., inzh.-podpolkovnik; FOMICHEV, N., inzh.-podpolkovnik~~

~~Advice on the use of quadruple cables. Voen.sviaz. 16 no. 4:32-35
Ap '58. (MIRA 11:4)~~

~~(Telephone cables)~~

LUK'YANOV, V.I.; MYSLIN, V.A.; SHNEYEROV, A.I.; KHORKHOT, A.Ya.;
YELENSKIY, M.S.; MEL'NIKOVA, O.M.; PLESHKOV, L.Ye.; OHLOV, V.V.;
ZLATOLINSKIY, V.N.; VISHNEVSKIY, F.L.; LAPSHENKOV, P.G.; MAKHOV,
M.S.; HUKAVISHNIKOV, I.D.; LITKIN, K.P.; KOZHEVNIKOV, O.A.;
ZORKIN, G.N.; NORMAN, B.B.; TUMANOV, N.S.; SEREBRYANIKOV, S.M.;
VOVIKOV, N.G.; NOVIKOV, P.G.; FRIDBERG, G.V., inzh., red.izd-va;
GELINSON, P.G., tekhn.red.

[Designing chief plans for industrial plants; principal methods]
Proektirovanie general'nykh planov promyshlennykh predpriatii;
osnovnye polozheniya. Moskva, Gos.izd-vo lit-ry po stroit.,
arkhit. i stroit.materiamal, 1960. 103 p.

(MIRA 13:6)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut gradostroitel'stva i rayonnoy planirovki. 2. Nauchno-issledovatel'skiy institut gradostroitel'stva Akademii stroitel'stva i arkhitektury USSR (for Khorkhot, Yelenskiy, Mel'nikhova). 3. Gosudarstvennyy institut proektirovaniya metallurgicheskikh zavodov (Gipromez) (for Pleshkov).

(Continued on next card)

LAPSHENKOV, V.S., inzhener,

Calculating the silting of backwaters. Gidr. stroi. 26 no.3:47-50
Mr '57. (MIRA 10:4)
(Hydraulic engineering)

LAPSHENKOV, V. S., Cand Tech Sci -- (diss) "Problems of prognosis in the accumulation of pumps in supported water-races in hydroelectric station junctions." Tashkent, 1960. 22 pp; with graphs; (State Committee of Higher and Secondary Specialist Education of the Council of Ministers Uzbek SSR, Tashkent Inst of Engineers in the Irrigation and Mechanization of Agriculture); 250 copies; price not given; (KL, 28-60, 161)

LAPSHENKOV, V.S.

Calculation of the filling-in of reservoirs at a constant level and
quasilaminar conditions of flow. Iz. AN Uz. SSR. Ser. tekhn. nauk 9
no.2:58-63 '65. (MIRA 18:8)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut vodnykh
problem i gidrotehniki.

LAPSHENKOV, V.S.; DUBINCHIK, Ye. I.

Experiment in modeling channel deformations of the Syr Darya
at the Chardara hydraulic structural complex. Vop. gidr.
(MIRA 17:8)
no.13:123-128 '63

LAPSHENKOVA, I.Ye.

Study of the errors of pneumatic timers. Trudy MINKhiGP no.52:
78-82 '64. (MIRA 18:6)

MAYZENBERG, M.M.; LAPSHEV, A.A.; GORDUNOVSKIY, M.V.

Pressed door panels made with a peat resol binder. Stroi. mat. 10
no.11:38 N '64. (MIRA 18:1)

LAPSHEV, Yu.

On the drying of bones in storage. Mias. ind. SSSR 25 no.6:15-16
154. (MIRA 8:1)

1. Glavnnyy inzhener Kislovodskogo myasokombinata.
(Bone products)

LAPSHEV, Yu., inzhener.

Meat shrinkages in the cooling processes. Mias.ind. SSSR 26 no.1:
20-21 '55. (MIRA 8:5)

1. Kislovodskiy Myasokombinat.
(Meat--Preservation)

LAPSHEV, Yu.

Weight changes in sheepskins. Mias.ind.SSSR 26 no.2:12-13 '55.
(MIRA 8:7)

1. Glavnnyy inzhener Kislovodskogo myasokombinata.
(Sheep) (Hides and skins)

LAPSHEV, Yu., inzhener

Electric stove for frying pies. Mias.ind.SSSR 26 no.4:56 '55.
(MIRA 8:10)

1. Kislovodskiy myasokombinat
(Stoves, Electric)

LAPSHEV, Yu.

LAPSHEV, Yu., inzhener.

Changes of carotene in beef fat during storage. Mias. ind. SSSR
28 no.3:49-51 '57. (MLRA 10:6)
(Carotene) (Oils and fats, Edible--Storage)

LAPSHEV, Yu.

LAPSHEV, Yu., inzh.

Errors in a method. Mias. ind. SSSR 28 no. 5:53-55 '57. (MIRA 11:1)
(Oils and fats) (Glycidaldehyde--Analysis)

LAPSHEV, Yu.

Use of refined sunflower seed oil for increasing the keeping quality
of edible fats in storage. Mias.ind. SSSR 33 no.3:53-55 '62.

(MIRA 15:7)

(Oils and fats, Edible—Storage)

LAPSHEV, Yu.

Using tocopherol (vitamin E) for improving the keeping quality of beef fat in storage. Mias.ind. SSSR 34 no.1:59 '63. (MIRA 16:4)

1. Upryleniye myasnoy promyshlennosti Tsentral'no-chernozemnogo ekonomicheskogo rayona.
(Oils and fats, Edible—Preservation) (Tocopherol)

LAPSHEV, Yu.

Effect of the animal's age on the carotene content of adipose
tissues of large beef cattle. Mias.ind.S.S.S.R. 33 no.6:53
'62. (MIRA 16:1)

1. Voronezhskiy sovet narodnogo khozyaystva.
(Beef cattle) (Crotene)

~~LAPSHIKHIN, V.F.~~, podpolkovnik.

Radio-news of the unit. Vest.Vozd.Fl.39 no.9:80 S '56.

(MIRA 10:1)

(Aeronautics, Military--Study and teaching)

LAPSHIN, A.A.

Complications in combined therapy with streptomycin and para-aminosalicylic acid. Probl.tub. no.5:49-54 S-0 '53. (MLRA 6:12)

1. Is TSentral'nogo Yaltinskogo klinicheskogo sanatoriya.
(Streptomycin) (Tuberculosis) (Para-aminosalicylic acid)

TIKHOMIROV, Vladimir Ignat'yevich; TARASEVICH, R.M., dotsent, retsenzent;
~~LAPSHIN, A.A.~~, dotsent, retsenzent; NOVITSKIY, V.F., inzhener,
retsenzent; GIL'BERG, L.A., redaktor; KUZNETSOVA, A.G., izdatel'-
skiy redaktor; IMBEDEVA, L.A., tekhnicheskiy redaktor

[Organization and planning in aircraft plants] Organizatsiia i
planirovaniye samoletostroitel'nogo predpriatiia. Moskva, Gos.
izd-vo obor. promyshl., 1957. 610 p. (MIRA 10:11)
(Airplane industry)

LAPSHIN A.A.

LAPSHIN, Aleksandr Aleksandrovich, kand.tekhn.nauk; KUSHUL, Veniamin Moiseyevich, kand.tekhn.nauk; UDAL'TSOV, A.N., glavnnyy red.; TOLCHINSKIY, M.Ye., inzh.red.

[The EV-53 electronic hygrometer. A device for gauging and signaling pressure drops] Elektronnyi vlagomer EV-53. Pribor dlja izmerenija i signalizatsii perepada davlenija. Moskva, 1956. 12 p. (Pribory i stendy. Tema 4, no.P-56-437)

(MIRA 11:3)

1. Mowcos. Institut tekhniko-ekonomiceskoy informatsii.
(Hygrometry) (Pressure gauges)

IAPSHIN, Aleksandr Aleksandrovich, BERGMAN, P.Ya., red.; ZHITNIKOVA, O.S.,
tekhn.red.

[Electric hygrometers] Elektricheskie blagomery. Moskva, Gos.
energ.izd-vo, 1960. 114 p. (Biblioteka po avtomatike, no.21)
(MIRA 14:6)

(Moisture—Measurement)
(Materials—Testing)

ANDRIANOV, D.P., doktor ekon. nauk, prof.; GENDEL'MAN, M.Z.,
kand. tekhn. nauk, dots.; GLICHEV, A.V., kand. ekon.
nauk, dots.; DIDENKO, S.I., kand. ekon. nauk, dots.;
ZHURAVLEV, A.N., kand. tekhn. nauk, prof.; ZAKHAROV,
K.D., kand. tekhn. nauk, dots.; MOISEYEV, S.V., kand.
tekhn. nauk, dots.; OL'SHEVETS, L.M., kand. tekhn.
nauk, dots.; ORLOV, N.A., prof.; POPOV, P.G., ispolnya-
yushchiy obyazannosti dots.; SARKISYAN, S.A., kand. ekon.
nauk, dots.; STARIK, D.E., kand. tekhn. nauk, ispolnyayu-
shchiy obyazannosti dots.; TER-MARKARYAN, A.N., kand.
tekhn. nauk, prof.; TIKHOMIROV, V.I., kand. tekhn. nauk,
prof.; CHESNOKOV, V.V., kand. ekon. nauk, dots.;
SHERMAN, Ye.I., kand. ekon. nauk, dots.; EL'BERT, L.M.,
kand. ekon. nauk, dots.; LAPSHIN, A.A., dots., retsenzent;
NOVATSKIY, V.F., kand. ekon. nauk, red.; TUBYANSKAYA, F.G.,
red. izd-va; KARPOV, I.I., tekhn. red.

[Organization, planning and economics of airplane produc-
tion] Organizatsiia, planirovanie i ekonomika aviationsionnogo
proizvodstva. [By] D.P. Andrianov i dr. Moskva, Oborongiz,
1963. 694 p.

(MIRA 16:10)
(Airplane industry--Management)

LAPSHIN, A., prepodavatel'

Use centralized instead of primitive methods. Grazhd. av. 20 no.7:
27 Jl '63. (MIRA 16:9)

1. Sakovskoye letnaya uchilishche Grazhdanskogo vozdushnogo flota.
(Aeronautics—Study and teaching)

Remote control of steam turbine drives. A. Lepikhin
(Refrig. Milk Ind. Inst., Leningrad). *Mekhanika Prav.* 12,
No. 1, 94-8 (1951).—Brief description of a 100-cycle genera-
tor, which can be mounted on a reduction drive from the
turbine, with the output being used as a measure of the speed
of the turbine. The app. was designed for speed control of
dispersing disks in spray driers in dairy plants.

O. M. Kostanoff

1951

12

CA

Continuous operation of a buttermaking machine of type GLSh-1. A. Grishchenko, A. Lapshin, and V. Shuvalov. *Molochnaya Prom.* 12, No. 5, 16-19(1951).—Complete description with diagrams of an automatic centrifugal-type butter churn of a vertical type capable of converting 35-40% cream into butter at the rate of 100 kg. per hr. is given. The churn proper is vertical and utilizes a rotating cylinder with baffles. G. M. Kosolapoff

CA

1

Theoretical reasons on intensification of fat rendering.
A. I. Apshin. (Leningrad Inst. Refrigeration Milk Ind.).
Myasnyaya Ind. S.S.R. 23, No. 3, 70-2 (1952).—The
speed of rendering of a fat is related to particle size of charge,
temp., and phys. properties of the fat. Considerable re-
duction in time of rendering was obtained when the grinding
of the raw material was at a pressure of 200-80 kg. per sq. cm
M. M. Plakur

1. SKRYPNIK, A.: LAPSIN, A.
2. USSR (600)
4. Oils and Fats
7. Continous assembly-line processing of raw fat in thin layers.
Mias. ind. SSSR 23. no. 5. 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

1. SKRYPNIK, A.: LAPSHIN, A.
2. USSR (600)
4. Packing Houses
7. Machinization and automatization in the meat industry.
Mias. ind. SSSR, 23 no. 6, 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953.
Unclassified.

LAPSHIN, A. A.

LAPSHIN, A.A.; VASIL'EV, P.V.

[Installation and repair of dairy industry equipment] Montazh i re-
nont oborudovaniia predpriatii molochnoi promyshlennosti.
Moskva, Pishchepromizdat, 1953. 190 p. (MILIA 7:7)
(Milk plants)

IAPSHIN, A.A. kand. tekhn. nauk.

Permissible shear forces in adhesion freezing. Trudy MIKH 5:61-63
'54. (MIRA 11:3)

(Refrigeration and refrigerating machinery)
(Conveying machinery)

IAPSHIN, A.A., kand. tekhn. nauk.

~~Determining the completion point of the mixing process. Trudy LIKHP~~
5:116-117 '54. (MIRA 11:3)
(Mixing)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000928620014-9

Heat penetration and temperature conduction of fat raw
material and of melting. fat. A. Lapshin. 375000
Ind. S.S.R. 25, No. 2, 55-6 (1951). N. M. Piskar.

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000928620014-9"

LAPSHIN, A., kandidat tekhnicheskikh nauk; CHERVINSKAYA, N., kandidat tekhnicheskikh nauk.

Determining the micromoisture of animal fats. Mias.ind. SSSR. 25 no.4: 55-57 '54. (MIRA 7:8)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti.
(Oils and fats--Analysis)

LAPSHIN, A., kandidat tekhnicheskikh nauk.

Electrical properties of animal fat. Mias. ind. SSSR 27
no.1:13-15 '56. (MIRA 9-6)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy
promyshlennosti.
(Oils and fats--Electric properties)

ACC NR: AP6006552

(A)

SOURCE CODE: UR/0335/65/000/005/0006/0007

AUTHOR: Lapshin, A. (Doctor of technical sciences, Professor); Shestov, R. (Candidate of technical sciences)

ORG: Leningrad Technologic Institute for the Refrigeration Industry (Leningradskiy tekhnologicheskiy institut kholodil'noy promushlennosti).

TITLE: Optimum conditions for the hydromechanical degreasing of bones

SOURCE: Myasnaya industriya SSSR, no. 5, 1965, 6-7

TOPIC TAGS: food product machinery, food processing equipment

ABSTRACT: The investigation was carried out in a semiworks hydromechanical machine which had a design capacity of 600 kg of mixed bones per hour, and a peripheral velocity of 40 meters/sec. The bone feed (whose properties are shown in a table) was previously ground in a ball mill. The construction of the machine is shown in a detailed drawing. It was provided with means for changing the number of agitators, to vary the degree of pulverization of the bones and to increase the efficiency of the extraction. The amount of cold water fed into the machine was controlled by a rotometer, and the consumption of electric power was measured with a Type KIP instrument. Determinations were made of the following parameters: the degree of extraction of grease from the bones as a function of the fineness of the grinding;

Card 1/2

UDC: 591.471.3;592.677.825.4

ACC NR: AP6006552

the content of residual fats as a function of the fineness of grinding and of the extraction time; the production capacity of the machine; and, the power consumption as a function of the abovementioned variables. The following conclusions were drawn: 1) with a decrease in the water flow rate, the consumption of electric power was practically unchanged; 2) a decrease in the gap between the beaters and the agitators by two times leads to a 5-6% increase in the power consumption. Under optimum conditions, the expected residual fat content in the dry bones (after hydromechanical degreasing and washing with hot water for 8 minutes) is not greater than 0.88%. This is compared to a content of 2.34% as a result of solvent extraction. Orig. art. has: 1 formula, 2 figures and 2 tables.

SUB CODE: 62, 13/ SUBM DATE: none

Card 2/2

A continuous (industrial) installation "Leningrad" for
the extraction of fat. A. A. Lapshin (Technol. inst.
Refrigerating ind., Leningrad). Mysnaya Ind. S.S.R.
27, No. 5, 22-4(1958). An industrial installation for the
continuous extn. of fat, called "Leningrad," is described.

continuous series of extractions. An industrial installation for the continuous series of extractions, called "Leibnitz," is described. Hot pork and beef fat (0.3 and 0.3 acid no., resp.) is taken, last after killing of the animals, heated to 80°, and subjected to the hot extrn. under the water-steam pressure of 100-20 kg./cm. The efficiency of the extrn. is 1500 and 1250 kg./hr. of pork and beef fat, resp. R. Wissner

B. Wierbleck

LAPSHIN, A.; SKRYPNIK, A.

Hydromechanical installation for extracting bone fats. Mias. ind.
SSSR 28 no.3:14-16 '57. (MLRA 10:6)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy pro-
myshlennosti (for Lapshin). 2. Leningradskiy myasnoy kombinat
(for Skrypnik).
(Oils and fats) (Bone products)

KRUPIN, G.V.; BELYAYEV, I.T.; LAPSHIN, A.A.; GORDEYEV, N.I.; MAR'YANOV-SKIY, I.M.; PAVLOV, B.V.; ZHILOV, S.N.; TSYPKIN, S.I.; ANDREYEV, N.N.; KAZIMIROVA, V.F.; KURANOVA, I.L.; PIGULEVSKIY, G.V.

Annotations of the scientific research work performed at the institute in 1957. Trudy ITIKHP 15:213-227 '58.
(MIRA 13:4)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti.
2. Kafedra tekhnologicheskogo oborudovaniya pishchevykh proizvodstv (for Krupin, Lapshin, Pavlov).
3. Kafedra ekonomiki i organizatsii proizvodstva (for Belyayev).
4. Kafedra detaley mashin i pod'yemno-transportnykh mashin (for Gordyev).
5. Kafedra grafiki (for Mar'yanovskiy).
6. Kafedra promyshlennoy teplotekhniki (for Zhilov).
7. Kafedra fiziki (for TSypkin).
8. Kafedra fizicheskoy kolloidnoy i organiceskoy khimii (for Andreyev, Kazimirova, Kuranova, Pigulevskiy).

(Refrigeration and refrigerating machinery)
(Chemistry, Technical)

LAPSHIN, A.A.

Automatic measurement of the moisture content of high-butterfat
content cream. Izv.vys.ucheb.zav.; pishch.tekh. no.1:109-115
'59. (MIRA 12:6)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promy-
shlennosti, kafedra tekhnologicheskogo oborudovaniya pishchovykh
proizvodstv.
(Cream) (Electronic instruments)

LAPSHIN, A., kand.tekhn.nauk; LIBERMAN, S., kand.tekhn.nauk; SKRYPNIK, A.

Experience in operating the "GMU-2000" assembly and testing
the "Leningrad" assembly. Mias.ind.SSSR 30 no.2:12-15 '59.
(MIRA 13:4)
(Leningrad--Rendering apparatus)

LAPSHIN, A.; BOUSHEV, T.; NIKOLAYEV, L.

Study of heat exchange in thinlayer tubular heat exchangers
with rotary turbulent flow displacement baffles. Mias. ind.
SSSR 30 no.3:22-24 '59. (MIRA 12:9)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy
promyshlennosti.
(Oils and fats, Edible)
(Heat--Transmission)

IAPSHIN, A.

Discussing the processing of raw materials for fat. ETO
no.11:41 N '59. (MIRA 13:4)

1. Predsedatel' sektsii Leningradskogo oblastnogo pravleniya
Nauchno-tehnicheskogo obshchestva pishchevoy promyshlennosti.
(Oils and fats, Edible)

LAPSHIN, A.; SHESTOV, R.

Using hydrocyclones for extracting fats and separating bones in the production of edible fats. Mizind.SSSR 32 no.2:48-50 '61.
(MIRA 14:7)

1. Leningradskiy institut kholodil'noy promyshlennosti.
(Oils and fats, Edible) (Separators (Machines))

POTROSHKOV, Viktor Aleksandrovich; REYDER, Bentsion Shandorovich;
LAPSHIN, A.A., red.; GRIGOR'YEVA, I.S., red. izd-va;
BELOGUROVA, I.A., tekhn. red.

[Methods for measuring the steam content of bakery oven
chambers] Metody izmerenija parosoderzhanija v kamarakh
khlebopекarnykh pechei. Leningrad, 1962. 26 p. (Lenin-
gradskii dom nauchno-tehnicheskoi propagandy. Otmen pe-
redovym opyтом. Seria: Khlebopекarnaia promyshlennost',
no.2) (MIRA 16:3)
(Ovens) (Steam—Measurement) (Automatic control)

LAPSHIN, A., dotsent, kand.tekhn.nauk

Automated fat processing section. Mias.ind. SSSR 34 no.1:21-28 '63.
(MIRA 16:4)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti.
(Meat industry) (Automation)

PELEYEV, Aleksandr Ivanovich, prof.; LAPSHIN, A.A., kand. tekhn. nauk, dots., retsenzent; AVETIKOV, G.M., kand. tekhn. nauk, retsenzent; SOKOLOV, A.Ya., doktor tekhn. nauk, retsenzent; KUZ'MINA, V.S., red.; ZARSHCHIKOVA, L.N., tekhn. red.

[Technological equipment of the enterprises of the meat industry] Tekhnologicheskoe oborudovanie predpriatii miasnoi promyshlennosti. Izd.2., perer. i dop. Moskva, Pishchepromizdat. 1963. 685 p.
(Meat industry--Equipment and supplies)

KAZAKOV, V.P.; LAPSHIN, A.I.; PESHCHEVITSKIY, B.I.

Oxidation-reduction potential of a thiourea complex of
gold. Zhur. neorg. khim. 9 no.5:1299-1300 My '64.

(MIRA 17:9)

I. 00803-67 ENT(m)/ENT(t)/ETI IJP(c) JD/JG
ACC NС AP6032161 SOURCE CODE: UR/0379/66/002/003/0376/0383

24

AUTHOR: Kazakov, V. P.; Lapshin, A. I.

ORG: Institute of Thermophysics, SO, AN SSSR, Novosibirsk (Institut teplofiziki
SO AN SSSR)

TITLE: Chemiluminescence of rare earth elements in sulfuric acid

SOURCE: Teoreticheskaya i eksperimental'naya khimiya, v. 2, no. 3, 1966,
376-383

TOPIC TAGS: chemiluminescence, rare earth element, luminescence
attenuation

ABSTRACT: It has been found that the rare earth oxides in sulfuric acid solutions show chemiluminescence in the visible and ultraviolet regions when treated with the electrolysis products of H_2SO_4 . The analysis of the luminescence attenuation curve indicates that the process leading to luminescence follows the bimolecular law and that its linear anamorphosis can be expressed by coordinates. A possible processing procedure is discussed, including participa-

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Acc NС

ACC NR:

AP6032161

tion of the $S^*O_4^-$ ion radicals. Comparison is made with the well known instances of luminescence of rare earth elements and explanations are offered for the chemiluminescence of those rare earth elements which are usually regarded as nonluminescent. Orig. art. has: 6 figures. [Translation of abstract]

SUB CODE: 07/ SUBM DATE: 16Aug65/ ORIG REF: 016/ OTH REF: 014/

2/2

LAPSHIN, A.P.; LOSHMANOV, I.A.

Changing the method of washing pipes of waste-heat boilers of
open-hearth furnaces. Sbor. rats. predl. vnedr. v proizv.
no.2:45-46 '61. (MIRA 14:7)
(Boilers—Maintenance and repair)

LAPSHIN, A.S., inzh.

Opening up short, blind holes in seams subject to methane and
dust. Bezop. truda v prom. 8 no.11:24-25 N '64.

(MIRA 18:2)

LAPSHIN, A. V.

"Investigation of the Principal Factors Effecting the Optimum Operating Conditions of Machines Used for the Electrospark Machining and Cylindrical Grinding of Hard Alloys." Cand Tech Sci, Lening Inst of Precision Mechanics and Optics, Min Higher Education USSR, Leningrad, 1955. (KL, No 15, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

LAPSHIN, A.V., kand. tekhn. nauk, dots.

Effect of the precision of various machine-tool parameters on dimensions and the shape of parts subjected to circular electric-spark grinding. Sbor. st. LITMO no.23:42-56 '57. (MIRA 11:5)
(Metal cutting, Electric)

LAPSHIN, A.V., kand. tekhn. nauk, dots.

High production electric-spark grinding of hard alloys. Sbor. st.
LITMO no.23:121-133 '57. (MIRA 11:5)
(Metal cutting, Electric)

LAPSHIN, A.V.

Technological processes in electric-spark cutting of hard-alloy parts. Izv.vys.ucheb.zav.; prib. 3 no.3:108-116 '60.

(MIRA 14:4)

1. Leningradskiy institut tochnoy mekhaniki i optiki. Rekomendovana kafedroy teorii mekhanizmov i mashin in detaley mashin.
(Electric metal cutting)

LAPSHIN, B.

Carpentry

Carpenter. Tekh. molod. 21, No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

NOVAK, Grigoriy Mikhaylovich; LAPSHIN, Boris Aleksandrovich. Prinimal
uchastiye KOMLEV, Ye.A.. PALEYEV, N.M., red.; KULINICH, D.D.;
MEDCHIKOVA, A.N., tekhn.red.

[Fighting for the ship's survival] Bor'ba za zhivuchest' ko-
rablia. Izd.2., perer. Moskva, Voen.izd-vo M-va obor.SSSR,
1959. 221 p. (MIRA 13:4)
(Ships--Safety measures)

LAPSHIN, B. A. Cand Tech Sci -- "Synthesis of certain ^{Chuvin} grades of electromechanical filters ^{on the basis of} according to operating parameters." Len, 1960. (Min of Communications USSR. Len Electrical Engineering Inst of Communications im Professor M. A. Bonch-Bruevich) . (KL, 4-61, 197)

201

Lapshin, B.F.

Use of the dilatometric method for the study of the growth
of cast iron B. F. Lapshin and L. E. Rudin. *Sbornik*
Stali Leininsk. Inst. Tekhn. Metall. i Obrab. 1955, No. 16,
04-8; *Referat. Zhur. Met.* 1956, Abstr. No. 0342.—The
effect of heating up to 700° on the growth of gray cast iron
(C 3.22, Si 2.45, Mn 0.55%), of tech. Fe, and of silicon steel
was studied.

A. N. Peshkov

5
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17

LAPSHIN, B. M.

JUL 52

USSR/Chemistry - Analytical Chemistry

"The Use of PbO₂ Electrodes as Indicators for Acid-
Basic Reactions," I. G. Shcherbakov, B. M. Lapshin,
I. I. Zaslavskiy, Ivanovo Chem Technol Inst

Zhur. Prikl. Khim., Vol 25, No 7, pp 761-766

In investigating the behavior of PbO₂ electrodes in various electrolytes, a change of the potential was noted. It is suggested that this is due to cathodic exchange bet the anode deposit of PbO₂ and the electrolyte soln. Measurement of the pH of solns showed that PbO₂ when reacting with salt solns releases H

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ions into the soln, thus lowering the pH. Investigation of the character of the change of potential of the PbO₂ electrode in various media leads to the conclusion that the electrode is suitable for detection of relative changes of activity of protons in various acid systems.

263T47

LAPSHIN, B. M.

AID P - 3753

Subject : USSR/Chemistry
Card 1/1 Pub. 152 - 17/22
Authors : Lapshin, B. M., V. A. Usol'tseva, and I. I. Zaslavskiy
Title : Change in the potential of the PbO₂-electrode in the
system H₂SO₄.xSO₃ - HNO₃
Periodical : Zhur. prikl. khim. 28, 9, 1009-1012, 1955
Abstract : The changes of the potential in systems containing
various amounts of HNO₃ and of oleum were established
and compiled in a table. One table, one diagram, 2
references, 1 Russian (1952).
Institution : Ivanovo Chemical and Technological Institute
Submitted : Ja 3, 1954

LAPSHIN, B.M.

USSR/Physical Chemistry - Thermodynamics, Thermochemistry, B-8
Equilibrium. Physicochemical Analysis. Phase Transitions

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 3739

Author : Lapshin B.M.

Inst : Ivanovo Chemico-Technological Institute

Title : Change in Accruece of Atomic Concentration in the
System Nitric Acid - Water.

Orig Pub : Tr. Ivanovsk. khim.-tekhnol. in-ta, 1956, No 5, 21-22

Abstract : For the purpose of confirmation of the previously advanced views concerning the nature of highly concentrated solutions of nitric acid (Shcherbakov I.G., Lapshin B.M., Zh. prokl. khimii, 1952, 25, 761) calculations were carried out of changes in accruece of atomic concentration in system $\text{HNO}_3 - \text{H}_2\text{O}$ on consecutive addition of the same increment of water equal to 0.025 mole. On the basis of the results thus obtained the author reaches the conclusion that in the concentration interval of

Card 1/2

- 87 -

Lapshin, B. M.

USSR/Physical Chemistry - Solutions. Theory of Acids and Bases, B-11

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 486

Author: Lapshin, B. M., and Gus'kova, L. V.

Institution: Ivanovsk Institute for Chemical Technology

Title: On the Question of Acid-Base Interactions in the Sulfuric Acid-Acetic Acid System

Original

Periodical: Tr. Ivanovsk. khim.-tekhn. in-ta, 1956, Vol 5, 23-24

Abstract: A lead dioxide electrode was used in the potentiometric investigation of the system H_2SO_4 - CH_3COOH . The characteristic giving the potential of the PbO_2 -electrode as a function of the composition of the system points to the formation of the compound $CH_3COOH_2^{+}HSO_4^{-}$.

Card 1/1

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 309 (USSR) SOV/137-59-3-7104

AUTHORS: Kisel'nikov, V. N., Lapshin, B. M.

TITLE: Corrosion and Electrochemical Behavior of Stainless Steels in Aggressive Media. Communication 2. Electrode Potentials of Stainless Steels in Nitric Acid (Korroziya i elektrokhimicheskoye povedeniye nerzhaveyushchikh stalei v agressivnykh sredakh. Soobshcheniye 2. Elektrodnyye potentsiali nerzhaveyushchikh stalei v azotnoy kislote)

PERIODICAL: Tr. Ivanovsk. khim. tekhnol. in-ta, 1958, Nr 7, pp 114-120

ABSTRACT: The authors measured the electrode potentials of EI-100, EYa 1-T, EI-401, and EI-403 steels in 98 and 50% HNO₃ at 95 and 20°C. The electrode potentials of the steels investigated correspond to their corrosion behavior, so that a sharp displacement of the potential in the negative sense corresponds to an increase in the rate of corrosion. For example, in EI-100 steel in the first 25 hours of the test a relatively slow growth of corrosion rate with time is observed, accompanied by a slow decrease of the potential. During the subsequent 25 hours of testing the rate of corrosion increased greatly, while the potential of the metal shifted sharply towards negative values. The

Card 1/2

SOV/137-59-3-7104

Corrosion and Electrochemical Behavior of Stainless Steels (cont.)

author noted that in a number of cases (for EI-100 and EYa 1-T steels) the steel alternates from the passive to the active state with gradually decreasing passivation periods. The relative variation in potential in this process was ~ 1.24 v. Curves for the anodic polarization of steel in 50% HNO₃ at 20° were plotted.

R. A.

Card 2/2

SOV/137-59-3-7105

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 309 (USSR)

AUTHORS: Kisel'nikov, V. N., Lapshin, B. M.

TITLE: Corrosion and Electrochemical Behavior of Stainless Steels in Aggressive Media. Communication 3. Corrosion of Stainless Steels in Boiling Solutions of Zinc Chloride (Korroziya i elektrokhimicheskoye povedeniye nerzhaveyushchikh staley v agressivnykh sredakh. Soobshcheniye 3. Korroziya nerzhaveyushchikh staley v kipyashchikh rastvorakh khlorida tsinka)

PERIODICAL: Tr. Ivanovsk. khim.-tekhnol. in-ta, 1958, Nr 7, pp 121-125

ABSTRACT: The authors investigated the resistance to corrosion of Cu, stainless Cr-Ni steels containing Mn (EI-100), Ti (EYa 1-T), Mo (EI-404)(sic!), Mo and Nb (EI-403), thermosilide, and antichlor in boiling 35, 55, and 70% $ZnCl_2$ solutions at atmospheric pressure. Cu is resistant to boiling $ZnCl_2$ solutions at concentrations $\leq 55\%$. Thermosilide, EI-401 (sic!), and EI-403 are resistant at concentrations $\leq 35\%$, while EYa 1-T and EI-100 are nonresistant in 35% $ZnCl_2$. Antichlor which proved resistant under all testing conditions can be recommended as structural material for the manufacture of evaporators for fibration of cellulose.

Card 1/1

R.A.

Lapshin, B.V.

SHAPOSHNIKOV, N.A.; SHEVANDIN, Ye.M., redaktor; DAVIDENKOV, N.N.,
retsenzent; LAPSHIN, B.V., professor, doktor tekhnicheskikh
nauk, retsenzent; SOKOLOVA, L.V., tekhnicheskii redaktor.

[Mechanical testing of metals] Mekhanicheskie ispytaniia metallov.
2-e izd., ispr. i dop. Pod red. E.M. Shevandina. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 443 p.
(MLRA 7:12)

1. Deystv. chlen Akademii nauk USSR (for Davidenkov)
(Metals--Testing)

LAPSHIN, F.A., GROBOV, V.I.

[Construction, inspection and repair of railroad cars] Ustroistvo, osmotr i
remont vagonov. Moskva, Gos. transp. zhel-dor. izd-vo, 1953. 413 p.
(MIRA 6:9)
(Railroads--Cars)

LAPSHIN, Fedor Alekseyevich; GROBOV, Vladimir Ivanovich; BOCHARNIKOVA, K.N.,
redaktor; VERINA, G.P., tekhnicheskiy redaktor

[Construction, inspection, and repair of railroad cars] Ustroistvo,
osmotr i remont vagonov. Izd. 2-e, ispr. i diop. Moskva, Gos. transp.
zhel-dor. izd-vo 1954. 429 p. (MLRA 8:4)
(Railroads—Cars)

LAPSHIN, Fedor Alekseyevich; KOMAROV, Sergey Georgiyevich; BOCHARNIKOVA,
K.N., inzhener, redaktor; YUDZON, D.M., tekhnicheskiy redaktor.

[Railroad cars] Vagonnoe khoziaistvo. Moskva, Gos.transp.zhel-dor.
izd-vo, 1955. 190 p.
(Railroads--Cars) (MLRA 8:9)

LAPSHIN, F.A., kandidat tekhnicheskikh nauk.

Progressive time schedules for freight car repair. Zhel.dor.transp.
37 no.11:24-27. N '55. (MIRA 9:2)
(Railroads--Cars--Maintenance and repair)

LAPSHIN, F.A.

ALFEROV, A.A.; ARTEMKIN, A.A.; ASHKENAZI, Ye.A.; VINOGRADOV, G.P.; GALEYEV, A.U.; GRIGOR'YEV, A.N.; D'YACHENKO, P.Ye.; ZALIT, N.N.; ZAKHAROV, P.M.; ZOBIN, N.P.; IVANOV, I.I.; IL'IN, I.P.; KMETIK, P.I.; KUDRYASHOV, A.T.; LAPSHIN, F.A.; MOLYARCHUK, V.S.; PERTSOVSKIY, L.M.; POGODIN, A.M.; RUDOV, M.L.; SAVIN, K.D.; SIMONOV, K.S.; SITKOVSKIY, I.P.; SITNIK, M.D.; TETEREV, B.K.; TSETYRKIN, I.Ye.; TSUKANOV, P.P.; SHADIKYAN, V.S.; ADELUNG, N.N., retsenzent; AFANAS'YEV, Ye.V., retsenzent; VLASOV, V.I., retsenzent; VOROB'YEV, I.Ye., retsenzent; VORONOV, N.M., retsenzent; GRITCHENKO, V.A., retsenzent; ZHEREBIN, M.N., retsenzent; IVLIYEV, I.V., retsenzent; KAPORTSEV, N.V., retsenzent; KOCHUROV, P.M., retsenzent; KRIVORUCHKO, N.Z., retsenzent; KUCHKO, A.P., retsenzent; LOBANOV, V.V., retsenzent; MOROZOV, A.S., retsenzent; ORLOV, S.P., retsenzent; PAVLUSHKOV, E.D., retsenzent; POPOV, A.N., retsenzent; PROKOF'YEV, P.Y., retsenzent; RAKOV, V.A., retsenzent; SINEGUBOV, N.I., retsenzent; TERENIN, D.F., retsenzent; TIKHOMIROV, I.G., retsenzent; URRAN, I.V., retsenzent; SHEBYAKIN, O.S., retsenzent; CHEPYZHES, B.F., retsenzent; GARNIK, V.A., redaktor; LOMAGIN, N.A., redaktor; MORDVINKIN, N.A., redaktor; NAUMOV, A.N., redaktor; POBEDIN, V.F., redaktor; RYAZANTSEV, B.S., redaktor; TVERSKOV, K.N., redaktor; CHEREVATYY, N.S., redaktor; ARSHINOV, I.M., redaktor; BAEELYAN, V.B., redaktor; BERNGARD, K.A., redaktor; VERSHINSKIY, S.V., redaktor; GAMBURG, Ye.Yu., redaktor; DARIAS, A.T., redaktor; DOMEROVSKIY, K.I., redaktor; KORNEYEV, A.I., redaktor; MIKHEYEV, A.P., redaktor

(Continued on next card)

ALFEROV, A.A. ---- (continued) Card 2.

MOSKVIN, G.N., redaktor; RUBINSHTEYN, S.A., redaktor; TSYPIN, G.S.,
redaktor; CHERNYAVSKIY, V.Ya., redaktor; CHERNYSHEV, V.I., redaktor;
CHERNYSHEV, M.A., redaktor; SHADUR, L.A., redaktor; SHISHKIN, K.A.,
redaktor

[Railroad handbook] Spravochnaia knizhka zheleznodorozhnika, Izd.
3-e, ispr. i dop. Pod obshchey red. V.A. Garnyka. Moskva, Gos.
transp.zhel-dor. izd-vo, 1956. 1103 p. (MLRA 9:10)

1. Nauchno-tekhnicheskoye obshchestvo zheleznodorozhnogo transporta.
(Railroads)

LAPSHIN, Fedor Alekseyevich; GROBOV, Vladimir Ivanovich; BRAYLOVSKIY, N.G., inzh.,
red.; GROBOV, V. N., tekhn.red.

[Construction and maintenance of cars] Ustroistvo i remont
vagonov. Izd. 3-e, ispr. i dop. Moskva, Gos.transp.zhel-dor.
izd-vo, 1958. 447 p. (MIRA 12:2)
(Railroads--Cars)

Lapshin, F.S.

LAPSHIN, F.S.; SHIRYAYEV, V.I.

Putting the Krasnodar Hydrolysis Plant into operation. Gidroliz, i lesokhim.
prom. 10 no.8:20-21 '57. (MIRE 10:12)

1. Direktor Krasnodarskogo gidroliznogo zavoda (for Lapshin). 2. Glavnyy
inxhener proyekta, Krasnodarskiy gidroliznyy zavod (for Shiryayev).
(Hydrolysis)

PANASYUK, V.G.; PANASYUK, L.V.; MAKSIMENKO, N.S.; LAPSHIN, F.S.

Vacuum thermal decomposition of hydrolytic lignin from wood. Gidroliz.
i lesokhim prom. 12 no. 7:16-17 '59 (MIRA 13:3)

1. Dnepropetrovskiy sel'skokhozyaystvennyy institut (for V. Panasyuk).
2. Krasnodarskiy gidroliznyy zavod (for Maksimenko, Lapshin).
(Lignin)

LAPSHIN, F.S.

Briquets from lignin. Gidroliz. i lesokhim.prom. 13 no.7:25-26 '60.
(MIREA 13:10)

1. Krasnodarskiy gidroliznyy zavod.
(Lignin) (Briquets (Fuel))